Figure 4-26: 2nd Level Detail Line

UTC Shows the UTC for this ULN. This entry can be edited, however only valid UTCs will be accepted.

SvcR Shows the 5-character "TPSN" or (Force Description, Service Reserved) field of this ULN. Can be edited.

UIC Shows the UIC for the unit sourced against this ULN, if any; if not, is blank. Can be edited.

Unit Shows the "Actual Unit Name", the sourced unit's name, if sourced; if not, is
Name blank. Can be edited.

Pers Shows the authorized strength, the authorized personnel strength of the ULN. Can be edited. This number can also, at this time, be made less than the "PAX", which would be a logical error.

Bulk ST/Over ST/Out ST/NAT ST

Shows the STON values; if these are a roll-up of lower level details, they cannot be edited; the cargo type is based on the CCC code.

ULC Shows the official definition of the Unit Level Code (ULC) for this ULN. The ULC can be edited, using a pop-up menu of values.

4.12.3 3rd Level Detail Line

When the plus sign (+) is clicked on a 2nd level entry, a third level of data MAY appear under it (if such data exists). This level lists all the Cargo Category Codes (CCC) for this ULN. This list is derived either from the TUCHA file (for standard ULNs), or from the non-standard cargo tables, for non-standard ULNs. The FIC determines the source.

Figure 4-27: 3rd Level Detail Line

Following are the various symbols and data types, and their functions/definitions, displayed for each CCC entry on this level:

- When selected, removes the current row (and all children -- all lower row entries) from the screen; this "closes up" (removes the detail for) this CCC entry.

+ Expands this entry to show the next level of detail; disappears if selected and there is no next level of detail. Once selected, and, if under a non-standard ULN (FIC = 2, 7, 8, 9), these symbols appear for editing purposes:

    D - Deletes this row permanently (destructive); provides a "confirm" box.

    C - Creates a new row (a new cargo detail entry) in the next level. If this is selected, a new row with blank values appears for entry of desired data. All fields in the new row must be completed (or bypassed with press **< RETURN>** twice).

Mini-icon These provide a rough indication of the type of CCC (based on the 1st char of the CCC).
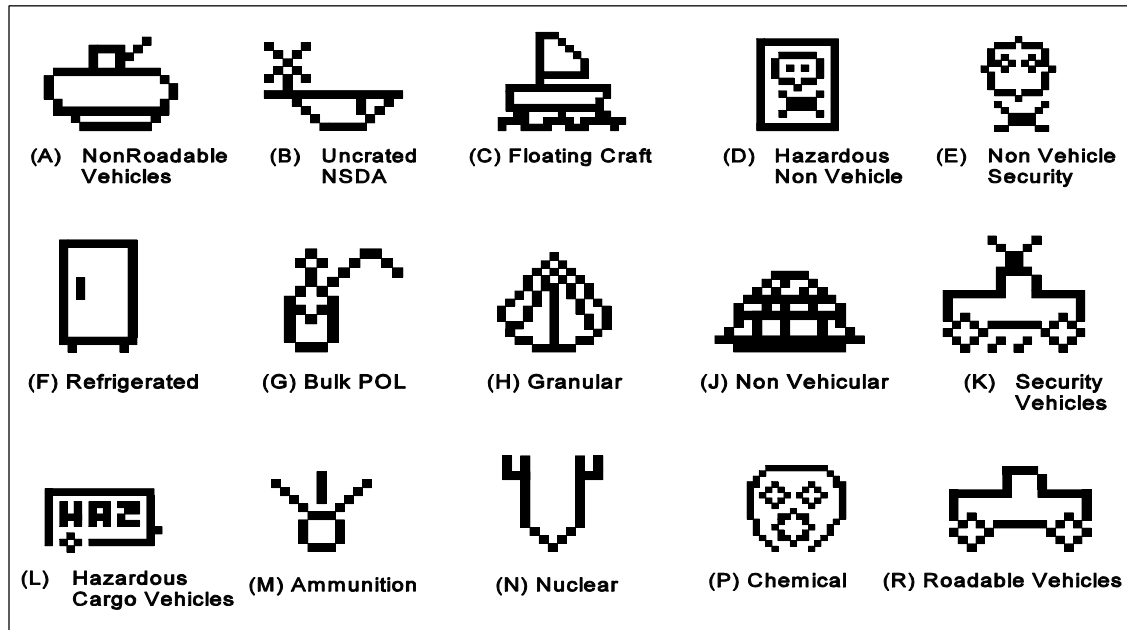
Figure 4-28: Cargo Mini-Icons

CCC   The Cargo Category Code for this entry. This value, with its accompanying mini-icon, are shown in grey type, and cannot be edited; if a change is desired, a new CCC entry must be created (from the next higher level entry; and this entry deleted.

This code may be selected, for copying or moving.

STons/MTons/SqFt/CBBls

Cargo values, or rolled-up totals from the 4th level detail cargo values. These entries are normally shown in grey, meaning that they cannot be edited. Editing should be done at the lower level of detail.

Hvy Lift   Description of the Heavy Lift and Dimension code for this CCC. Can be
Code   edited, with pop-up of values.

4.12.4 4th (Lowest) Level Detail Line

When the plus sign + is clicked on a 3rd level entry, a fourth level of data MAY appear under it (if such data exists). This level lists all of the actual pieces of equipment or material which form the higher level CCC entry.

Following are the various symbols and data types, and their functions/definitions, displayed for each entry:

- When selected, removes the current row from the screen.

D Deletes this row permanently (destructive); provides a "confirm" box.

Displays the sequence number for the equipment types under each CCC. The detail numbers are automatically assigned during record create and delete operations. These entries may be selected for copying or moving.

Figure 4-29: 4th Level Detail Line

Description Displays the text description of the specific equipment. Can be edited.

Lgth/Wdth/Ht Displays the dimensions; can be edited.

SqFt Cannot be edited, displays results from (length x width) / 144.

STons Can be edited.

MTons Cannot be edited, displays results from (CuFt / 40).

Piec Displays the number of pieces of this equipment. Can be edited.

4.12.5 Cargo Edit Procedures

ULN cargo and passenger detail information can be modified in the "Cargo Editor" mode. Cargo information can also be moved or copied from one ULN to another. This is efficiently accomplished using either a mouse click/menu or drag and drop operation. Standard ULNs must be changed to non-standard before changes can be made and DART provides a simple capability to accomplish this task.

VIEW CARGO DETAIL INFORMATION

1.   Open the Cargo Editor screen by clicking on the "Cargo" Icon on the TPEDIT screen or click on a ULN and click on "Cargo Editor" from the pop-up menu.

Note: Clicking on a ULN then clicking on "Cargo Editor" automatically brings the selected ULN to the top of the Cargo Editor screen.

2.   Click on the "+" symbol located to the left of each record (where expanded information is available) to progressively advance to lower levels of detail.

3.   Note that the field header bar at the top of the screen changes to correspond to each lower level of detail.

Note 1: Descriptions of various fields were presented earlier in the Cargo Editor section. It may not be possible to restore the top level header bar once lower levels of detail are selected. Recall that the S/N symbol is present on all standard ULNs.

Note 2: Clicking on the "Options" button on the main menu bar provides options to allow the user to restore the screen to top level detail lines only, and other options that may assist in viewing.

EDITING CARGO EDITOR FIELDS

1.   Point and click on the desired field to be edited and a text cursor will appear if the field is editable.

2.   Make the desired changes.

3.   Press < **RETURN**> .

To cancel the editing operations, put the mouse arrow outside the field being edited and press the middle mouse button or press < **RETURN**> . Note: The cancel procedure is very sensitive to mouse pointer position on this crowded screen and multiple attempts with slight adjustments to the mouse point position may be required.

CREATING CARGO DETAIL RECORDS

1.   If present, click on the **"S/N"** symbol to make the ULN "non-standard."

Note: DART will not allow modification of a standard UTC. Clicking on the S/N symbol copies TUCHA detail to modifiable cargo records tables.

2.   Expand the desired ULN to at least the third level of detail by clicking on the **"+"** symbol.

3.   Click on the **"cart"** symbol or the **"C"** symbol at the third level of detail.

DART will create a new level 4 cargo detail line.

4.   Type in the item description, dimensions, etc., at the prompt and press < RETURN> after each entry.

DART will adjust the UTC weight totals and level 3 summary information once the entry is complete.

DELETING CARGO DETAIL RECORDS

Cargo records may be deleted at either the third or fourth level of detail.

1.   If present, click on the "S/N" symbol to make the ULN "non-standard."

2.   Expand the desired ULN to the desired level of detail by clicking on the **"+"** symbol.

3.   Click on the "D" symbol on the appropriate line.

4.   DART will ask you to confirm the operation. Click on "OK."

ADDING CARGO CATEGORY CODES (CCC) AND DETAIL RECORDS

CCC and detail records can be added from the top level line as described here or cargo detail records may be inserted directly as described in the previous section titled "Creating Cargo Detail Records." As with many DART functions, there are frequently multiple paths to perform a task and the user has the flexibility to determine the most efficient for the particular operation. However, using the procedure described below CCCs and detail records may be added in the same step. Additionally, the LIN/TAM/EIC Lookup feature may be useful for retrieving detail information automatically without the need to specify each line of detail individually. If the LIN/TAM/EIC is not known, wildcards may prove helpful as described below. Finally, the user

also may find an easier option using the "Move" or "Copy" routine from a source record to a target record as described in the next section.

1.   Click on the "cart" symbol to obtain the following pop-up:

2.   Detail information can be added on the top portion of the screen in the "Detail" box. The LIN/TAM/EIC lookup field can be used to screen existing cargo data and automatically provide the detail information. Enter the LIN/TAM/EIC if known and press < RETURN> . A retrieval can be performed based on the LIN/TAM/EIC field entry which can be one or more characters, but should be at least four for best results. Wildcards % for a string and _(underscore) for a character may be used. The "RESET" button can be used to blank the detail fields if necessary.

3.   The CCC is built by completing the bottom half of the screen under "Category."

4.   Click on "OK" when ready to add the data. If a CCC section is not completed, DART will query you to provide the required information and return you to the Add Cargo Screen.

Note: The "Cancel" button may be used at anytime to terminate the operation.

Add Cargo to U-0AAA

Detail

Description: ⬚

Length (inches): ⬚

Width (Inches): ⬚

Height (Inches): ⬚

Weight (Short Tons): ⬚

Num Pieces: ⬚

RESET

LIN/TAM/EIC Lookup ⬚

Category

☐   A: Non-roadable vehicles not sec/hazardous   ☐   K: Vehicles as security/hazardous cargo

☐   B: Uncrated Non self Deploying Aircraft   ☐   L: Vehicles as hazardous, but not security cargo

☐   C: Floating Craft   ☐   M: Ammunition

☐   D: Hazardous nonvehicular cargo   ☐   N: Nuclear munitions

☐   E: Security/hazardous nonvehicular cargo   ☐   P: Chemical munitions

☐   F: Cargo requiring refrigeration   ☐   R: Roadable vehicles not sec/hazardous

☐ G: Nonpackaged Bulk POL			
☐ H: Bulk granular cargo			
☐ J: Other nonvehicular			
A☐ On organic vehicle	B☐ 20FT container	C☐ 40FT container	D☐ Not containerized
Unit Equipment	Accompanying Supply	Self-Deployed	Not Self-Deployed
	OK		Cancel

COPYING AND MOVING CARGO DETAIL RECORDS

1. If present, click on the "S/N" symbol to make the **target** ULN "non-standard" for a "copy" operation or **both the source and target** ULN "non-standard" if performing a "move" operation.

Note: "Copy" leaves the source ULN unchanged while "Move" deletes the selected details from the source ULN.

2. Expand the source ULN to the third or fourth level of detail by clicking on the "+ " symbol.

3. If moving all level 4 records under a CCC (level 3 line) click on "CCC." If moving a level 4 detail line (or pieces from that line) click on the level 4 line sequence number (first number on the line) to obtain the following pop-up:

Note: If moving all level 4 records under a CCC (level 3 line) initiate the move from the level three line by clicking on "CCC" otherwise this line will remain with no level 4 records and will not re-total properly after the move is made.

Action
Copy
Move

4. Select either a copy or move option.

DART will prompt you to select the ULN copying or moving to.

5. Click on the target ULN.

If copying or moving detail records, DART will prompt you for the number of pieces to be moved.

6.   Type in the desired number of pieces and press < RETURN> .

The copy or move operation will commence and DART will automatically recalculate weight and summary data.

Note: Clicking the middle mouse button will allow the user to abort the operation prior to step 6.

MOVING PERSONNEL DETAIL RECORDS

DART allows reassigning "number of passengers" and "authorized personnel" between ULNs.

1.   Expand the source ULN to level 2 detail by clicking the "+ " sign.

2.   Click on the "Number of pax requiring transportation" item.

DART will prompt you to identify the target ULN.

3.   Click on the target ULN.

DART will prompt you for the number of passengers to be moved.

4.   Type the number of passengers to be moved to the new record and press < RETURN> .

DART will move the designated number of passengers from the source record to the target record and adjust the appropriate entries to reflect the change.

Note: Clicking the middle mouse button will allow the user to abort the operation prior to step 5.

4.13 TPFDD EDITOR MAP

The TPFDD Editor Map Display is selected from the TPFDD Editor Map Icon.

MAP

This map is designed primarily to support viewing and error-checking of TPFDD movement requirements. Selected geographical areas can be displayed, and zoom is

available on selected points. The color code followed on this map is consistent with other TPFDD Editor displays.

The TPFDD Editor Map Display can show:

- All locations in the TPFDD

- Some or all of the port pairs (ORIG-POE, POE-POD, and POE-DEST) in the retrieved collection of movement requirements
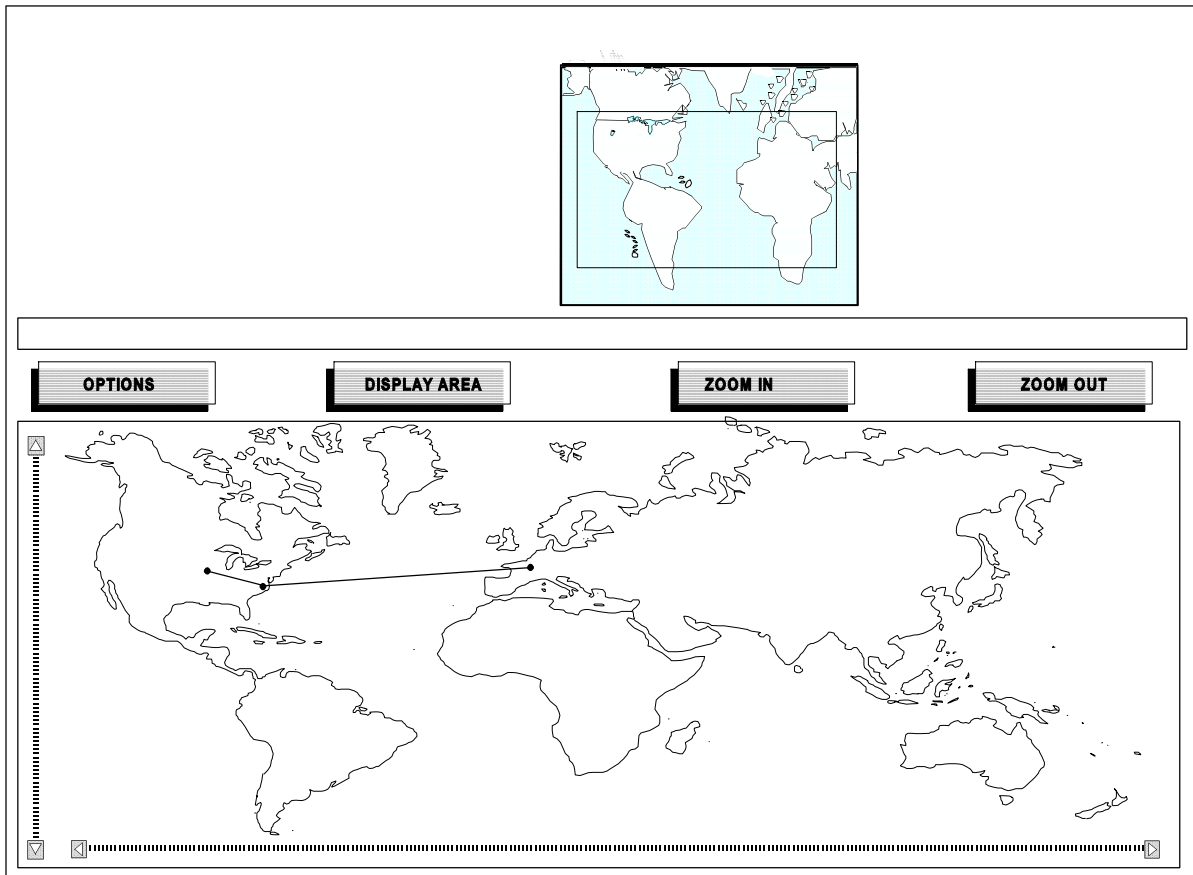
Figure 4-30: TPFDD Editor Map

4.13.1 Map Display Color Coding Conventions

The following color coding conventions are used by the TPFDD Editor Map Display:

Color Coding	Indication
Magenta Point	Origin
Orange Point	POE
Yellow Point	POD
Turquoise Point	Destination
Red Point	Any two location types
Blue Lines	Indicates movement by Air
Yellow Lines	Indicates movement by Land
Green Lines	Indicates movement by Sea
Gray Lines	Transportation not needed
Mixed color Lines	Combination of movement types represented

These colors are similar to those used in the Chart Display.

4.13.2 Change Region Displayed

Various regions of the world may be displayed in the lower section of the screen. There are several ways to change the area being displayed.

Miniature Display Map

This small map, located in the upper center of the screen, can be used to change the section of the world being displayed. A yellow rectangle represents the area currently being viewed. By moving the mouse into this miniature display area, a white rectangle appears. Using the mouse, move the white rectangle to the new view area and click the left mouse button. The lower portion of the screen will be refreshed with the geographical area located in the rectangle. The size of the yellow rectangle provides an indication of the region displayed by the lower map window.

Menu Bar Options

Other ways to adjust the area being viewed are through the menu bar options, "Display Area", "Zoom In", and "Zoom Out."

4.13.3 Menu Bar Buttons

The buttons on the Menu Bar are:

Options

OPTIONS

The **Options Button** allows changes to the display format currently portrayed in the geographical portion of this screen. This selection activates a pop-up menu with the following options:

Display Options

Channels Origin to POE	Toggle display of transportation channels Origin to POE ...
Channels POE to POD	Toggle display of transportation channels POE to POD ...
Channels POD to Destination	Toggle display of transportation channels POD to Destination ...
GEOLOC	Display GEOLOC locations only
Label All	Label all GEOLOC with location names
Label Collection	Label from the current collection
Labels Off	Erase all location labels
Read new map areas	Read new map areas from file ... dartdata/dart-preferences.lisp

---

Figure 4-31: Map Options Menu

The channel selections are toggles, and each must be made one-by-one. Channel selections are displayed in the notation line, along the upper border of the map window. Here, the term channel movement refers to the line connecting an Origin with a POE, a POE with a POD, or a POD with a Destination.

Also shown on the notation line are the latitude and longitude of the map region border corners. These may be useful in determining appropriate lat/long settings for establishing a new map region in the User Preferences file. (This should be done only by the site DART System Administrator.)

Display Area

DISPLAY AREA

Display Area changes the geographical area currently displayed in the lower portion of this screen. This option will produce a pop-up menu containing a list of

various geographical regions. Once a choice is made, the screen will be redrawn with that area displayed. This list of regions is similar to that used by the main situation map.

Zoom In

```
ZOOM IN
```

Zoom In enlarges the center of the geographical area currently depicted on the screen. The center is not shifted by this selection.

Zoom Out

```
ZOOM OUT
```

Zoom Out shrinks the geographical area currently depicted on the screen. The center is not shifted by this selection.

4.13.4 View Information

To view the number of movement requirements associated with a **Channel**, click the left mouse button on the small knot in the middle of a channel. When a channel is thus highlighted (changes color), TPFDD-related data will be displayed on the information line located near the middle of the screen, above the menu bar option line.
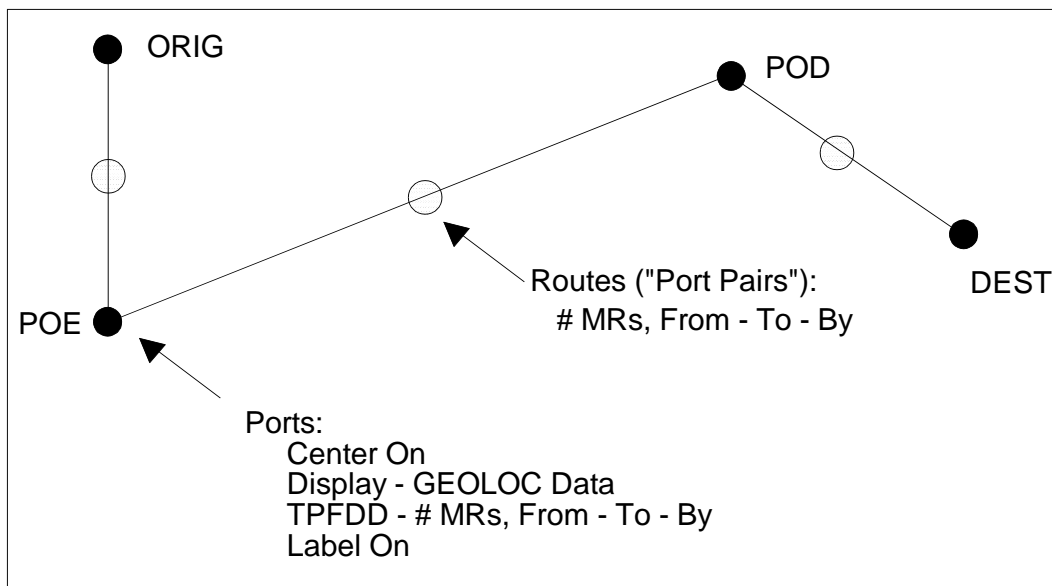
Figure 4-32: Deployment Channels

To obtain information about a specific port location, place the mouse pointer on the desired location. Information will be displayed on the information line near the middle of the screen.

Click the left mouse button on a port location to activate the following pop-up menu:

Center

Redisplays the map with the currently selected location shifted to the center of the display.

Display

Displays detailed GEOFILE data for the currently selected location.

TPFDD

Displays TPFDD summary data on channel movements through the currently selected location; this data will include all movements, of all channel types, even if not selected for display, and even those to/from ports not in the current collection.

*Label On/Off*

Toggles individual port location name on/off.

4.13.5 Common Problems With TPFDD Editor Map Displays

Zooming in or out too far may cause the system to freeze; recover using the mushroom; or else try to reselect a map region.

Moving a map display across the Pacific sometimes causes the display to become confused; select another region, and try moving from a different direction.

4.14 FM ANALYSIS

Select the FM Icon to activate the FM Graphics Display of the TPFDD Editor.
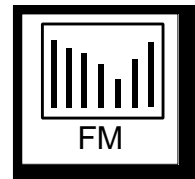
This display provides a series of very dramatic graphs that are useful for TPFDD analysis purposes.   These charts provide profiles of deliveries by force module, individually, or in comparison to others, by a variety of parameters and dates.

CAUTION: The **FM Analysis** function is completely separate from the **FM Edits** options accessed via the FM Edit Menu Button.   Generally, FMs are created or edited through FM Edits; and can then be viewed and analyzed by the FM Analysis function.
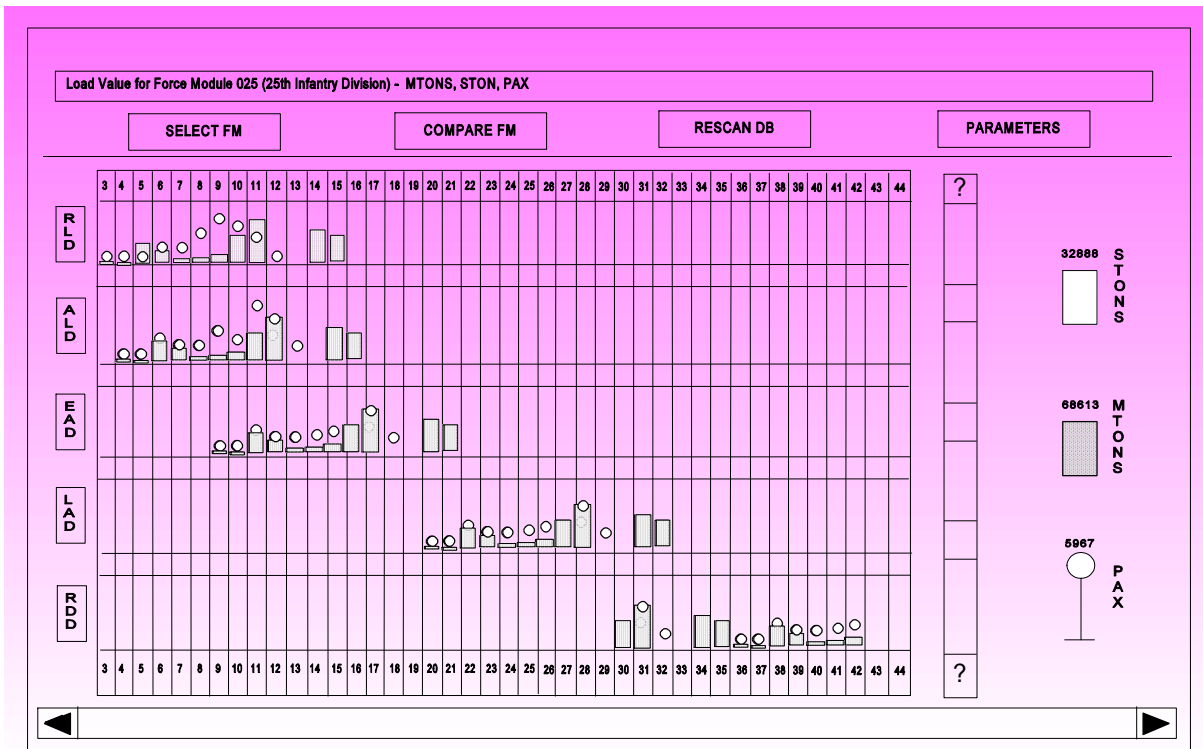
Figure 4-33: Single FM Analysis Chart (Absolute)

4.14.1 Display Modes

The key display options that must be determined by the user are:

Show Single FM or Compare FMs

Either a single FM can be displayed, in **Single** mode, or two or more FMs can be compared, in the **Compare FMs** mode. The differences are:

- *Single*

  Displays daily movement requirements (PAX, MTONS, STONS) by C-Day for one FM and **all date types**. (This is the default mode.) The date type is listed on the left border of the graphic and the cargo legend is displayed on the right border.

- *Compare FMs*

  Displays daily movement requirements (PAX, MTONS, STONS) for several FM and **one date type**. The date type is selected in the **Parameters** option described below. IDs of FMs being compared, and the date type selected, appear on the Mouse Info